Journal of Pressure Vessel Technology

Author Index

All authors of papers published in this volume are listed alphabetically. Full titles are included in each first author's entry. Letters in parentheses follow some of the page numbers: D indicates Discussion, BR indicates Book Review, E indicates Errata, and PVRC indicates Pressure Vessel Research Council.

Afshari, Payman, and Widera, G. E. O. — Free Vibration Analysis of Composite Plates. **122,** 390–398
Aoki, Shigeru, and Watanabe, Takeshi — Analytical Method of Response of Piping System With Nonlinear Support. **122,** 437–442
Arola, D. — (see Ramulu, M.) **122,** 90–95
Au-Yang, M. K. — Joint and Cross Acceptances for Cross-Flow-Induced Vibration—Part I: Theoretical and Finite Element Formulations. **122,** 349–354
_____ Joint and Cross Acceptances for Cross-Flow-Induced Vibration—Part II: Charts and Applications. **122,** 355–361
_____ (see Weaver, D. S.) **122,** 339–348

Babu, S. — (see Seshadri, R.) **122,** 413–420
Balachov, Iouri, Macdonald, Digby, Stellwag, Bernhard, Henzel, Norbert, and Kilian, Renate — Prediction of Materials Damage History From Stress Corrosion Cracking in Boiling Water Reactors. **122,** 45–49
Beale, S. B. — (see Djebbar, R.) **122,** 462–468
Becht, Charles, IV , and Chen, Yaofeng — Span Limits for Elevated Temperature Piping. **122,** 121–124
Bergheau, J.-M. — (see Bhandari, S.) **122,** 408–412
Bergheau, Jean-Michel — (see Devaux, Josette) **122,** 368–373
Bhandari, S., Feral, X., Bergheau, J.-M., Mottet, G., Dupas, P., and Nicolas, L. — Creep-Damage Analysis: Comparison Between Coupled and Uncoupled Models. **122,** 408–412
Bhandari, Surender K. — (see Devaux, Josette) **122,** 368–373
Birk, A. M., and Cunningham, Mark. H. — Thermographic Inspection of Rail-Car Thermal Insulation. **122,** 494–501
_____ (see Pierorazio, A. J.) **122,** 60–65
_____ (see Pierorazio, A. J.) **122,** 204–209
Boyle, J. T. — (see Zhu, Lei) **122,** 443–449
Brown, R. G., Buchheim, G. M., Osage, D. A., and Janelle, J. L. — Fitness for Service Evaluation of Ring Joint Groove Cracking. **122,** 72–75
Brown, Samuel J., and Le May, Iain — Risk-Based Hazardous Release Protection and Prevention by Inspection and Maintenance. **122,** 362–367
Brust, F. W. — (see Dong, P.) **122,** 329–338
Buchheim, G. M. — (see Brown, R. G.) **122,** 72–75
Bunyard, Bradley A. — (see Lehnhoff, Terry F.) **122,** 180–185

Carter, P. — Stress Analysis and Design for Cyclic Loading. **122,** 427–430
Caskey, George R., Jr. — (see Sindelar, Robert L.) **122,** 162–168
Chattopadhyay, J., Nathani, D. K., Dutta, B. K., and Kushwaha, H. S. — Closed-Form Collapse Moment Equations of Elbows Under Combined Internal Pressure and In-Plane Bending Moment. **122,** 431–436
Chen, H. F., and Shu, D. W. — The Effects of the Distance Between Two Defects on the Load-Carrying Capacity of a Pressure Vessel. **122,** 198–203
Chen, S. S. — (see Weaver, D. S.) **122,** 339–348
Chen, Yaofeng — (see Becht, Charles, IV) **122,** 121–124
Chen, Yong — (see Lu, Ming-Wan) **122,** 2–8
Chiovelli, S. — (see Zuo, M.) **122,** 482–487
Chuanxiang, Zheng — Analysis of Controllable Stress Distribution and Optimal Design of Flat Steel Ribbon Wound Pressure Vessel. **122,** 186–191
Chudnovsky, A., Sehanobish, K., and Wu, S. — Methodology for Durability Analysis of HDPE Pipe. **122,** 152–155
Cohn, Marvin J. — (see Yee, Raymond K.) **122,** 488–493
Cunningham, Mark. H. — (see Birk, A. M.) **122,** 494–501

Desikan, V., and Sethuraman, Raju — Analysis of Material Nonlinear Problems Using Pseudo-Elastic Finite Element Method. **122,** 457–461
Devaux, Josette, Mottet, Gérard, Bergheau, Jean-Michel, Bhandari, Surender K., and Faidy, Claude — Evaluation of the Integrity of PWR Bimetallic Welds. **122,** 368–373
Djebbar, R., Beale, S. B., and Sayed, M. — Numerical Study of Two-Phase Granular Flow for Process Equipment. **122,** 462–468
Dong, P., and Brust, F. W. — Welding Residual Stresses and Effects on Fracture in Pressure Vessel and Piping Components: A Millennium Review and Beyond. **122,** 329–338
Dupas, P. — (see Bhandari, S.) **122,** 408–412
Dutta, B. K. — (see Chattopadhyay, J.) **122,** 431–436
Dyson, Brian — Use of CDM in Materials Modeling and Component Creep Life Prediction. **122,** 281–296

Eisinger, Frank L. — (see Weaver, David S.) **122,** 50–54
Ellis, F. V., and Tordonato, Sebastian — Calculation of Stress Relaxation Properties for Type 422 Stainless Steel. **122,** 66–71

Faidy, Claude — (see Devaux, Josette) **122,** 368–373
Farr, James R. — (see Zamrik, Sam Y.) **122,** 226–228
Feenstra, Paul — (see Weaver, David S.) **122,** 50–54
Feigel, Richard E. — (see Sims, J. Robert) **122,** 247–254
Feral, X. — (see Bhandari, S.) **122,** 408–412
Findlan, S. — (see Viswanathan, R.) **122,** 139–145

Gandy, D. — (see Viswanathan, R.) **122,** 76–85
_____ (see Viswanathan, R.) **122,** 139–145
Gong, Jian-Ming — (see Ling, Xiang) **122,** 174–179
Guo, C. Q., and Païdoussis, M. P. — Analysis of Hydroelastic Instabilities of Rectangular Parallel-Plate Assemblies. **122,** 502–508

Hashish, M. — (see Ramulu, M.) **122,** 90–95
Hattori, Toshio — (see Mochizuki, Masahito) **122,** 27–32
Hayashi, Makoto — (see Mochizuki, Masahito) **122,** 27–32
Hechmer, John — (see Hollinger, Greg) **122,** 105–109

Hedden, Owen F. — Evolution of Section XI of the ASME Boiler and Pressure Vessel Code. **122,** 234–241
Henzel, Norbert — (see Balachov, Iouri) **122,** 45–49
Holliday, J. E. — (see Jones, D. P.) **122,** 146–151
Hollinger, Greg, and Hechmer, John — Three-Dimensional Stress Criteria—Summary of the PVRC Project. **122,** 105–109
Hopkins, J. — (see Ramulu, M.) **122,** 90–95
Hour, K. — (see Yoon, K. K.) **122,** 125–129

Igari, Toshihide, Wada, Hiroshi, and Ueta, Masahiro — Mechanism-Based Evaluation of Thermal Ratcheting due to Traveling Temperature Distribution. **122,** 130–138

Janelle, J. L. — (see Brown, R. G.) **122,** 72–75
Jaske, Carl E. — Fatigue-Strength-Reduction Factors for Welds in Pressure Vessels and Piping. **122,** 297–304
Jones, D. P., and Holliday, J. E. — Elastic-Plastic Analysis of the PVRC Burst Disk Tests With Comparison to the ASME Code Primary Stress Limits. **122,** 146–151

Kalnins, Arturs — (see Rana, Mahendra D.) **122,** 55–59
Kaneko, Shigehiko, and Mizota, Yasuo — Dynamical Modeling of Deepwater-Type Cylindrical Tuned Liquid Damper With a Submerged Net. **122,** 96–104
_____ (see Nagakura, Hiroshi) **122,** 33–39
_____ (see Nagakura, Hiroshi) **122,** 192–197
Karcher, Guido G. — The Pressure Vessel Research Council of the Welding Research Council, Inc. **122,** 110–111
_____ PVRC Task Group on Increased Allowable Stresses. **122,** 111–112
Kendall, David P. — A Short History of High Pressure Technology From Bridgman to Division 3. **122,** 229–233
Kilian, Renate — (see Balachov, Iouri) **122,** 45–49
Kizhatil, R. — (see Reinhardt, W.) **122,** 476–481
Knudsen, Jakob, and Massih, Ali R. — Vibro-Impact Dynamics of a Periodically Forced Beam. **122,** 210–221
Koves, William J. — Process Piping Design: A Century of Progress. **122,** 325–328
Kunaporn, S. — (see Ramulu, M.) **122,** 90–95
Kushwaha, H. S. — (see Chattopadhyay, J.) **122,** 431–436

Lam, Poh-Sang, and Sindelar, Robert L. — Flaw Stability in Mild Steel Tanks in the Upper-Shelf Ductile Range—Part II: *J*-Integral-Based Fracture Analysis. **122,** 169–173
_____ (see Sindelar, Robert L.) **122,** 162–168
Law, M., Payten, W., and Snowden, K. — Creep Modeling of Welded Joints Using the Theta Projection Concept and Finite Element Analysis. **122,** 22–26
Lehnhoff, Terry F., and Bunyard, Bradley A. — Bolt Thread and Head Fillet Stress Concentration Factors. **122,** 180–185
Le May, Iain — (see Brown, Samuel J.) **122,** 362–367
Li, Jian-Guo — (see Lu, Ming-Wan) **122,** 2–8
Liang, Jianwen, and Sun, Shaoping — Site Effects on Seismic Behavior of Pipelines: A Review. **122,** 469–475
Ling, June — The Evolution of the ASME Boiler and Pressure Vessel Code. **122,** 242–246
Ling, Xiang, Tu, Shan-Tung, and Gong, Jian-Ming — Damage Mechanics Considerations for Life Extension of High-Temperature Components. **122,** 174–179
Lu, Ming-Wan, Chen, Yong, and Li, Jian-Guo — Two-Step Approach of Stress Classification and Primary Structure Method. **122,** 2–8
Luloff, Brian V. — (see Smith, Bruce A. W.) **122,** 401–407

Macdonald, Digby — (see Balachov, Iouri) **122,** 45–49
Massih, Ali R. — (see Knudsen, Jakob) **122,** 210–221
McClellan, G. H. — (see Reinhardt, W.) **122,** 476–481
Merah, N. — Notch-Strengthening Phenomenon Under Creep-Fatigue Loading Conditions. **122,** 15–21
Miyasaka, C., and Tittmann, B. R. — Recent Advances in Acoustic Microscopy for Nondestructive Evaluation. **122,** 374–378
Mizota, Yasuo — (see Kaneko, Shigehiko) **122,** 96–104
Mochizuki, Masahito, Hayashi, Makoto, and Hattori, Toshio — Residual Stress Distribution Depending on Welding Sequence in Multi-Pass Welded Joints With X-Shaped Groove. **122,** 27–32
Mottet, G. — (see Bhandari, S.) **122,** 408–412
Mottet, Gérard — (see Devaux, Josette) **122,** 368–373
Mourad, Hashem M., and Younan, Maher Y. A. — The Effect of Modeling Parameters on the Predicted Limit Loads for Pipe Bends Subjected to Out-of-Plane Moment Loading and Internal Pressure. **122,** 450–456

Nachum, A. — (see Perl, M.) **122,** 421–426
Nagakura, Hiroshi, and Kaneko, Shigehiko — Self-Excited Sloshing due to the Fluid Discharge Over a Flexible Cylindrical Weir. **122,** 33–39
_____, **and Kaneko, Shigehiko** — Self-Excited Sloshing due to the Fluid Discharge Over a Flexible Plate Weir. **122,** 192–197
Nathani, D. K. — (see Chattopadhyay, J.) **122,** 431–436
Nicolas, L. — (see Bhandari, S.) **122,** 408–412
Nikbin, Kamran — Comparison Between Crack Growth in Fracture Mechanics Specimens and Feature Component Tests Carried Out in a Low-Alloy Steel. **122,** 40–44
Nishimura, Toshihiko — Strip Yield Analysis of Plastic Zone Coalescence for Collinear Edge Crack and Internal Crack in a Semi-Infinite Sheet. **122,** 86–89
Nonaka, Y. — (see Zuo, M.) **122,** 482–487

Osage, D. A. — (see Brown, R. G.) **122,** 72–75
Osweiller, Francis — Tubesheet Heat Exchangers: New Common Design Rules in UPV, CODAP, and ASME. **122,** 317–324

Païdoussis, M. P. — (see Guo, C. Q.) **122,** 502–508
_____ (see Weaver, D. S.) **122,** 339–348
Payten, W. — (see Law, M.) **122,** 22–26
Perl, M. — The Change in Overstrain Level Resulting From Machining of an Autofrettaged Thick-Walled Cylinder. **122,** 9–14
_____, **and Nachum, A.** — 3-D Stress Intensity Factors for Internal Cracks in an Overstrained Cylindrical Pressure Vessel—Part I: The Effect of Autofrettage Level. **122,** 421–426
Pettigrew, M. J. — (see Taylor, C. E.) **122,** 509–514
_____ (see Weaver, D. S.) **122,** 339–348
Pierorazio, A. J., and Birk, A. M. — Dynamic Behavior of Transportation Pressure Relief Valves Under Simulated Fire Impingement Conditions. **122,** 60–65
_____, **and Birk, A. M.** — Air Tests of Commercially Available Transport Vessel PRVs. **122,** 204–209
Prager, Martin — The Omega Method–An Engineering Approach to Life Assessment. **122,** 273–280

Ramulu, M., Kunaporn, S., Arola, D., Hashish, M., and Hopkins, J. — Waterjet Machining and Peening of Metals. **122,** 90–95
Rana, Mahendra D., and Kalnins, Arturs — Technical Basis for Code Cases on Design of Ellipsoidal and Torispherical Heads for ASME Section VIII Vessels. **122,** 55–59
Reinhardt, W., Kizhatil, R., and McClellan, G. H. — Analysis of a Tubesheet Undergoing Rapid Transient Thermal Loading. **122,** 476–481

Sammataro, Robert F. — Editorial. **122,** 1
____ Containment Inservice Inspection, Repair, Replacement, and Testing. **122,** 255–266
Sayed, M. — (see Djebbar, R.) **122,** 462–468
Scavuzzo, Rudolph J. — Oscillating Stress on Viscoelastic Behavior of Thermoplastic Polymers. **122,** 386–389
Sehanobish, K. — (see Chudnovsky, A.) **122,** 152–155
Seshadri, R. — Limit Loads Using Extended Variational Concepts in Plasticity. **122,** 379–385
____, **and Babu, S.** — Extended GLOSS Method for Determining Inelastic Effects in Mechanical Components and Structures: Isotropic Materials. **122,** 413–420
Sethuraman, Raju — (see Desikan, V.) **122,** 457–461
Shu, D. W. — (see Chen, H. F.) **122,** 198–203
Sims, J. Robert — PVRC Division on Continued Operation of Equipment. **122,** 112–113
____, **and Feigel, Richard E.** — The Use of Risk-Based Approaches in Post-Construction Standards. **122,** 247–254
Sindelar, Robert L., Lam, Poh-Sang, Caskey, George R., Jr., and Woo, Leta Y. — Flaw Stability in Mild Steel Tanks in the Upper-Shelf Ductile Range—Part I: Mechanical Properties. **122,** 162–168
____ (see Lam, Poh-Sang) **122,** 169–173
Smith, Bruce A. W., and Luloff, Brian V. — The Effect of Seat Geometry on Gate Valve Noise. **122,** 401–407
Snowden, K. — (see Law, M.) **122,** 22–26
Stellwag, Bernhard — (see Balachov, Iouri) **122,** 45–49
Sun, Shaoping — (see Liang, Jianwen) **122,** 469–475

Tang, Jun — (see Zhao, Jie) **122,** 156–161
Taylor, C. E., and Pettigrew, M. J. — Random Excitation Forces in Heat Exchanger Tube Bundles. **122,** 509–514
Tittmann, B. R. — (see Miyasaka, C.) **122,** 374–378
Tordonato, Sebastian — (see Ellis, F. V.) **122,** 66–71
Tu, Shan-Tung — (see Ling, Xiang) **122,** 174–179

Ueta, Masahiro — (see Igari, Toshihide) **122,** 130–138

Van Der Sluys, W. A. — (see Yoon, K. K.) **122,** 125–129
Viswanathan, R. — Life Management of High-Temperature Piping and Tubing in Fossil Power Plants. **122,** 305–316

____, **and Gandy, D.** — Weld Repair of Aged Cr-Mo Steel Piping—A Review of Literature. **122,** 76–85
____, **Gandy, D., and Findlan, S.** — Weld Repair of 1-1/4Cr-1/2Mo Steel Piping Girth Welds. **122,** 139–145

Wada, Hiroshi — (see Igari, Toshihide) **122,** 130–138
Watanabe, Takeshi — (see Aoki, Shigeru) **122,** 437–442
Weaver, D. S., Ziada, S., Au-Yang, M. K., Chen, S. S., Païdoussis, M. P., and Pettigrew, M. J. — Flow-Induced Vibrations in Power and Process Plant Components—Progress and Prospects. **122,** 339–348
Weaver, David S., Feenstra, Paul, and Eisinger, Frank L. — An Experimental Study of the Effect of Tube-to-Tube Ties on Fluidelastic Instability in an In-Line Tube Array. **122,** 50–54
Widera, G. E. O. — (see Afshari, Payman) **122,** 390–398
Wilkowski, Gery — Leak-Before-Break: What Does It Really Mean? **122,** 267–272
Woo, Leta Y. — (see Sindelar, Robert L.) **122,** 162–168
Wu, Han C. — (see Zhao, Jie) **122,** 156–161
Wu, S. — (see Chudnovsky, A.) **122,** 152–155

Yee, Raymond K., and Cohn, Marvin J. — Creep Relaxation Behavior of High-Energy Piping. **122,** 488–493
Yoon, K. K., Van Der Sluys, W. A., and Hour, K. — Effect of Loading Rate on Fracture Toughaess of Pressure Vessel Steels. **122,** 125–129
Younan, Maher Y. A. — (see Mourad, Hashem M.) **122,** 450–456

Zamrik, Sam Y., Technical Editor — Editorial. **122,** 225
Zamrik, Sam Y., and Farr, James R. — Historical Development—The Pressure Vessels and Piping Division. **122,** 226–228
Zhao, Jie, Tang, Jun, and Wu, Han C. — A Generalized Random Variable Approach for Strain-Based Fatigue Reliability Analysis. **122,** 156–161
Zhu, Lei, and Boyle, J. T. — Optimal Shapes for Axisymmetric Pressure Vessels: A Brief Overview. **122,** 443–449
Ziada, S. — (see Weaver, D. S.) **122,** 339–348
Zuo, M., Chiovelli, S., and Nonaka, Y. — Fitting Creep-Rupture Life Distribution Using Accelerated Life Testing Data. **122,** 482–487